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ABSTRACT

The nine references in this bibliography were selected through a computer search of the Educational Resources Information Center (ERIC) database. The following titles are included: (1) "Multimedia in Education" (Sueann Ambron and Kristina Hooper); (2) "Hypermedia in Academia" (Robert Beck and Donald Spicer); (3) "Design Considerations for Hypermedia Systems" (Brian Gaines and Joan Vickers); (4) "Authoring Considerations for Hypertext" (Greg Kearsley); (5) "Hypermedia and Learning: Freedom and Chaos" (Gary Marchionini); (6) "Hypertext and Information Retrieval" (Karen Smith and others); (7) "Hypermedia: Breaking the Tyranny of the Text" (Kay Vandergrift); (8) "Language Learning and Hypermedia" (John Underwood); and (9) "Intermedia: A System for Linking Multimedia Documents" (Nicole Yankelovich). Annotations are provided for each of the articles listed. (DB)

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HYPERMEDIA: DESIGN AND APPLICATION

A Select ERIC Bibliography
Prepared especially for:

The Fifth National Conference and Exhibition of the
American Association of School Librarians
October 18-22, 1989
Salt Lake City, Utah

Compiled by Nancy R. Preston

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HYPERMEDIA: DESIGN AND APPLICATION

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Citations in this bibliography were selected through a computer search of the Educational Resources Information Center (ERIC) database. The term **hypermedia**, as an identifier, was used to retrieve all documents.

Ambron, Sueann and Hooper, Kristina, Eds. (Spring 1987). *Multimedia in Education*. Proceedings of Invitational Conference on Multimedia in Education, Cupertino, CA, June 19-20, 1986. *Learning Tomorrow: Journal of the Apple Education Advisory Council* [special issue] 346pp. (Available EDRS: ED 302 179).

This collection of articles exploring multimedia in education includes several pieces on hypermedia design and application. Sample titles include: "Issues in Designing a Hypermedia Document System: The Intermedia Case Study" (Nicole Yankelovich, Karen Smith, L. Nancy Garrett, and Norman Meyrowitz); "NoteCards: A Multimedia Idea Processing Environment" (Frank G. Halasz); "The Shakespeare Project" (Larry Friedlander); "Grapevine--An Excursion into Steinbeck Country" (Robert Campbell and Patricia Hanlon); "Links or Stories--A Compromise" (Bernard Frischer); "Authoring with Hypermedia" (Carol Kaehler); and "Navigation in Large Knowledge Spaces" (Stephen A. Weyer).

Beck, J. Robert and Spicer, Donald Z. (February 1988). Hypermedia in Academia. *Academic Computing* 2(5), pp. 22-25, 49-50.

Briefly reviews the origins of the hypermedia concept, comments on its use in higher education, and describes a project at Dartmouth College that developed a training process to introduce a hypermedia authoring environment to the academic community.

Gaines, Brian R. and Vickers, Joan N. (March 1988). Design Considerations for Hypermedia Systems. *Microcomputers for Information Management* 5(1), pp. 1-27.

Reviews the background, concepts, and role of hypermedia systems and analyzes essential, expected, and desirable features of hypermedia in order to provide a basis for system design and evaluation. Four hypermedium shells and systems are described, and approaches to user interface problems are discussed.

Kearsley, Greg. (November 1988). Authoring Considerations for Hypertext. *Educational Technology* 28(11), pp. 21-24. (Available UMI: EJ 384 408).

Discusses some of the major aspects of authoring hypertext documents and databases as forms of interactive instruction. Highlights include knowledge structuring; root documents; authoring tools; screen formats; computer graphics; collaboration among authors; cognitive processes; and degree of learner control.

Marchionini, Gary. (November 1988). Hypermedia and Learning: Freedom and Chaos. *Educational Technology* 28(11), pp. 8-12. (Available UMI: EJ 384 406).

Describes hypermedia and its potential uses in learning and teaching. Highlights include storage and manipulation of information; levels of learner control; the roles of teachers and learners and the interactions between them; theoretical and technical problems; instructional difficulties; and evaluation principles for hypermedia.

Smith, Karen E. and others. (March 1988). Hypertext and Information Retrieval. *Online* 12(2), pp. 32-40, 42-46. (Available UMI: EJ 377 847).

An overview of hypertext and hypermedia is followed by a description of the Intermedia system, and possibilities for using hypertext in the information industry are explored. A sidebar discusses information retrieval in the humanities using hypertext, and a 58-item annotated bibliography on hypertext is presented.

Vandergrift, Kay E. (November 1988). Hypermedia: Breaking the Tyranny of the Text. *School Library Journal* 35(3), pp. 30-35. (Available UMI: EJ 384 332).

Describes the possibilities of hypermedia stackware with emphasis on applications for youth librarians. A model for the development and evaluation of stackware is offered, and an example of a proposed hypermedia product is provided. Differences in personal interest levels and learning styles are considered, and copyright concerns are discussed.

Underwood, John. (April 1988). Language Learning and "Hypermedia." *ADFL Bulletin* 19(3), pp. 13-17.

Describes the concept of "hypermedia," by which readers select and link segments of text, audio, video, or other media in a way that helps them to explore and understand information. A case is made for the use of "hypermedia" in helping students learn and understand language through its provision of massive doses of comprehensible information.

Yankelovich, Nicole. (1986). *Intermedia: A System for Linking Multimedia Documents. IRIS Technical Report 86-2.* Providence, RI: Brown University Inst. for Research in Information and Scholarship 19pp. (Available EDRS: ED 296 735).

"Intermedia" is a hypermedia system which was developed for use in university research and teaching. It provides a framework for object-oriented, direct manipulation applications, and the capability to link together materials created with those applications. This paper provides a discussion of hypermedia systems in general, as well as a description of the Intermedia system, and illustrates the operation of the system through a sample session.

Compiled by Nancy R. Preston September 1989

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